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14 July 1972

REPORT ON: US Visit under US-USSR Cultural Exchange Program  
of Soviet Air Pollution Delegation 7-25 June 1972

PROGRAMMING  
AGENCY Environmental Protection Agency (EPA)

STATINTL

BY Vladimir B Grinioff, Escortinterpreter, State LSD

VB E.

#### A. Summary

The visit of four highranking Soviet specialists on pollution was a continuation of such exchanges started some years ago, but the present one took on particular significance because of the Nixon-Podgorny agreement on collaboration on pollution, signed with much publicity, last May in Moscow. The purpose of the visit was thus not only to exchange technical information but also to identify areas of possible joint research efforts. This purpose was accomplished. The delegates after a coast-to-coast trip of some 20 days, were quite favorably impressed with the scope, vigor and financing of the anti-pollution drive and realized that it would be to their advantage to join hands with the US since their own effort seems to be a less vigorous one. At the wrap-up meetings with EPA officials on 22-23 June, Dr. IZRAEL, the head of the delegation, outlined three broad "directions", as he put it, where collaboration <sup>in the area of air pollution (air only)</sup> might be fruitful. They were (1) standards setting (2) back-up research (3) techniques and methods. The US side accepted this broad formulation (here condensed) with the understanding that specific projects would be developed after consultation with specialists. There were no significant differences encountered during the trip which proceeded smoothly.

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However the oft-revised trip was revised again at the half-way mark to accomodate the Soviets. The trip was lengthened by four days. And for one day the Delegation was split, two delegates returning to Washington and two proceeding to South Bend Ind. Each of the groups was always accompanied by a Government official. The amenities during the trip were excellent save in California where the meetings were limited to business. The Sovdel notably avoided any critique of the US.

B. The Delegates

Dr. Yuriy Antonovich Izrael Head of the delegation  
Deputy Chief, Main Administration of Hydrometeorological Services

Mr. Aleksandr Sergeyevich Zaitsev  
Chief, Main Geophysical Observatory  
(Chief of instruments group in Leningrad)

Mr. Anatoliy Aleksandrovich Fomin  
Chief, Laboratory of Toxicology of Agents  
(Control technology laboratory for toxic vehicle emissions), USSR Ministry of Tractor and Agricultural Machine Building

Mr. Vladislav Aleksandrovich Anikiev  
Chief, All-Union Association for Purification of Gas and Dust, USSR Ministry of Oil Refinery and Petrochemical Industry

Dr. Izrael, had visited the US before, and speaks excellent scientific English. Mr. Zaitsev also speaks English. Both are active meteorologists, but Izrael had the broader administrative problems at heart. Fomin, at 51 the oldest of the group is a much honored engineer, a designer of internal combustion engines now "undoing the harm I have done". He was of course

the efforts of the Ford company in combatting pollution.

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Anikiev designs, builds and installs antipollution devices

for stationary sources- power stations, factories etc

~~C. Itinerary Highlight (full program given in attachment)~~  
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1. 8-9 June, Washington D.C. Substantive and organizational top officials briefing by EPA/on their effort in administering the Act of 1970: the responsibilities of US government, states and counties. (Hard on the Soviets whose society is much different) Trip to enormous computer center of Nat. Meteorology Center of NOAA in Suitland - modelling, early warning system, /control of weather satellites etc.
2. 12 June, Boston- visit to a demonstration facility of the "wet" method of removal of sulfur pollution from electric power station stacks. (Note: Boston inner city is in a state of reconstruction and presents a sad spectacle and the hippies have taken over the famous Commons)
3. 13-14 June Raleigh N.C. at the EPA "Research Triangle"  
 This was probably the high-point of the trip. Our host was Deputy Director Dr. Thompson, and co-host was Dr. McCormick an ex-US delegate well known to the Soviets who scored a personal and professional triumph. The research program of EPA is very extensive and some of it highly advanced (particle acceleration).<sup>privately</sup> Sovdelegates highly impressed. When Fomin dissented and said (in Russian) that the effort was too great and costly, Izrael answered at once "No government - not theirs or ours- will ever pass laws changing industrial methods until the need has been scientifically demonstrated. The Americans have taken the correct path and we should follow". My attempts to fan this discussion were not successful. We also met an ex-Russian PhD chemist who was delighted with the Sovdel and they with him. I think they were pleased to see a Russian chemist-- and not a waiter or taxi driver.

\*Broadly speaking the program dealt with mathematical modelling, control technology development and measurement of air pollution.  
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4. 15 June, Pittsburgh Pa. US Bureau of Mines Energy Research Lab ( Dr. Wender chief; Dr. Schlesinger, staff coordinator) This was another highlight showing US government research work in developing the "dry" method of combatting sulfur pollution from stacks. Other work dealt with advanced and "clean" method of energy production such as gassification and magnetohydrodynamics( electricity from ionized gases with no moving parts) Again the much underrated government scientists showed their exciting work and left a very favorable impression on Sovdel. Later we visited the Allegany County Health Department, Bureau of Air Pollution control and saw at first hand how the system operated and was enforced. The Pittsburgh visit in killing heat and humidity, concluded with a stop at School of Public Health(Graduate) at University of Pittsburgh. Fine reports were given by PHD candidates on their pollution experiments and the meeting produced a real American maverick.. one Dr. Henry Smith, (retired) and an ex-US delegate to USSR on pollution. He thought the EPA program was excessive and we were "not wise to fight evolution which is going on all around us all the time" <sup>all but</sup> He/Invited us to join the extinct carrier pidgeon. Perhaps some of his points were valid, but the extreme presentation was counterproductive. Yet no one could doubt that US has free speech ( at a price). The Soviets disagreed with Dr. Smith to a man.

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5. 16 June San Francisco ( regional EPA Office) There was  
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and his cooperative staff. The information covered the entire  
work of the office from budgeting to early warning systems and  
scientific research grants to outside institutions. As with  
all other delegations, San Francisco produced a memorable  
impression and the weather was perfect.

6. 18-19 June Los Angeles. We visited Disneyland. Nuff said.  
The Los Angeles County Air Pollution Board gave an excellent  
account of its work- as the pioneer organization fighting  
air pollution. There were many questions on air sampling  
techniques and the like on the part of the Soviets and much  
printed data was given to them.

7. 20-21 Dearborn and Ann Arbor, Michigan. The visit to  
the Ford Motor Co ( company particularly admired by the Soviets)  
with Mr. Simpson of Ford International as program coordinator,  
entailed some very technical engineering papers on Ford work  
in producing an engine which meets Federal emission standards  
The fact that Ford was having trouble on this very point was  
not a significant factor and the Sovdel, especially Fomin, were  
quite captivated by the data both oral and printed. The  
amenities were those of a wealthy great company. The Ford  
Museum was highly appreciated although our time there was short.  
The Ann Arbor EPA Motor Vehicle Emissions Laboratory ( Mr. John  
Brogan was our principal host) much like the Ford laboratory  
impressed the Soviets who indicated they would like to buy  
some of the scientific measuring apparatus especially gas  
chromatographs made by Texas Instruments Co and General Electric  
Again Dr. Fomin said that this is the top  
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which he would like to carry out joint research projects.

attempts to develop the clean power plant,-- we even took rides in the Chrysler turbine powered autos.

8. 22 June South Bend Ind and Washington.

Because, Mr. Ruckelshaus, the EPA Administrator, just back in the US from the Stockholm meeting, could only receive Dr Izrael on Thursday, ( Dr. Izrael also had pressing meetings at the SovEmbassy) a decision was made to split the delegation. ON the 21st, Izrael<sup>and</sup> Zaitsev accompanied by EPA's Stanton Coerr ( tour manager who made the entire trip save the last leg to New York City) returned to Washington and met with Both Mr. Ruckelshaus and Dr. White of NOA. Meantime, Fomin and Anikeiv, accompnied by myself after one more night in Dearborn, on the 22nd flew for one day to South Bend Ind. to visit the Wheelabrator Co. makers among other things of dust eliminating equipment. Our main hosts were Mr. George Chane. group vice-president, and Mr. Joseph Condon\*, President, Wheelabrator International. The company was genial, allowed a complete tour of main facilities and gave samples of material from which bags are made. The Soviets had bought some of this equipment in Europe from some firm, not realizing it was a licensee of Wheelabrator-- so it was the parent's firm equipment that they were using. Anikiev was well pleased with the visit and expressed a desire to purchase some of the products -- presumably technical data. Both sides were well pleased with the one-day visit.

\* Mr. Condon spoke excellent Russian having spent some time in the USSR installing industrial equipment. This was some years ago and I did not get the details.

9. 23 June, Washington D.C. These were wrap-up meetings  
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at which Dr. Izrael gave in writing the three main areas in

which he deemed collaboration with US was possible. Hurricane Agnes put a very considerable damper on planned festivities for that evening.

10. 24-25 June New York City. Outwitting the effects of the flood thanks to EPA's Holmberg's station wagon and Marine Corps spirit, we made it to the National airport and arrived in New York. The time was spent in shopping and in Museum visiting: Guggenheim and Metropolitan. We were also treated to an eight block long parade of the Gay Liberation Front carrying such banners as " A Lesbian in Every Bed". The Soviets showed remarkable restraint in thier comments. I was unable to contact Aeroflot despite frantic phoning-- no officials were in sight when we arrived at Kennedy. There was a two hour delay. The plane was overbooked. The confusion and lack of consideration for passengers was maddening. Coerr and I always smoothly pre-boarded the visitors on the US lines, but here even Izrael's status and diplomatic passport were ignored. The delegation was unceremoniously pushed and shoved into line where they stood for an hour and there I left them at 11 PM among the howling children and exhausted mothers. Dr. Izrael had a first class ticket

but on this flight first class was suddenly abolished. Rather than refund the 300 ruble difference Aeroflot put Izrael into the first row and called it first class. But then the Russian put a bridle on a samovar and said it was not a first class.

D. Soviet View of Kremlin Pecking Order

It is hard to imagine a more appropriate gift/than to the Sovdel Mr. Ruckelshaus' color photoes of the ceremony in Moscow when Nixon and Podgorny signed the collaboration agreement. This brought on discussion of significance from Soviet point of view of say Kosygin, Podgorny or Brezhnev executing a document with another

even an ambassador could sign for the US government. Not as

felt that Kosygin's signature would be the lowest. He is a prime minister. Podgorny would come next, as head of the State. The Delegation was proud that he had committed the government to collaboration with the US- and not Kosygin. The Delegation regarded the SALT agreement signed by Brezhnev as very significant because he as CP head signed it. The Party dictates to the government they explained. SALT agreement signified a very meaningful shift in the "Party's long range philosophy". Without the Party's commitment, the SALT agreement would not mean so much, in their opinion.

E. Etcetera

The Soviets were deeply appreciative of the personal attention given them <sup>in Washington</sup> parties at homes of Dr. Middleton, Mr. Robert Fri( Deputy EPA Administrator), Mr. Fuller's and Mr. Holmsberg's wholehearted efforts and Mr. Green's lunch.

They also noted the efforts of Mr. Coerr in endlessly



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were appropriately met by Coerr and myself in New York when they landed and the ~~trip was made~~ rankless and little visible chore fell on Coerr who had to spend many hours replanning the trip and validating Aeroflot tickets through Pan Am etc. The Soviets were a bit anxious when it appeared that they would not be accompanied back to New York <sup>from Washington on the last leg of the tour,</sup> and were relieved when the decision was made to send me along with them. " We would never allow your delegation to travel unescorted in the USSR" they said. " We meet them at the plane and we say dosvidaniya at the plane. We were glad when you met us at the plane. We felt we were welcome."

The interpreting required was quite taxing both as to lack of relief for I was the only one, and as to substance. I am glad I boned up on chemistry and mechanical engineering before the trip.

Soviet humor is inexhaustible and there are proverbs and jokes for all occasions. The delegation and I agreed that despite contrary opinions from the underlings, the supervisors always work much harder than they do. In fact they always must double anything the underlings do. Here is an illustration..

A student on his way to the final oral examinations lost his nerve and to recover it stopped by a zabegalovka ( saloon) and had 200 grams of vodka - a tumbler. When he entered the professor's cabinet he saw seated at the cathedra not one but two professors. " Which professor is going to examine me?" he asks. And the professor replies, " How many times have I told you students not to rush in here four at a time!"

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Lang. Services - Lejins

CIA-00

ERA Coerr and Fuller

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Thursday, June 8, Washington, D.C.

8:00 AM	Leave Windsor Park Hotel
8:30 AM	Meeting with EPA Office of International Activities
9:00 AM	Meeting with EPA Deputy Administrator Robert W. Fri, Acting Assistant Administrator for Research and Monitoring Albert C. Trakowski, Acting Assistant Administrator for Air and Water Programs, Mr. Robert Sansom
9:30 AM	Meeting with EPA Office of Research and Monitoring Topics: Monitoring, Health Effects
12:00	Luncheon
1:00 PM	Meeting with EPA Office of Research and Monitoring Topics: Air Pollution Control Technology
3:00 PM	Meeting with EPA Office of Air Programs Deputy Assistant Administrator Dr. John T. Middleton
5:00 PM	Meeting with EPA Office of Federal Activities
5:30 PM	Depart EPA to Windsor Park Hotel
6:45 PM	Depart Windsor Park Hotel for Dinner Hosted by Dr. Middleton
9:00 PM	Return to Windsor Park Hotel

Friday, June 9, Washington, D.C.

8:00 AM Depart Windsor Park Hotel to National Meteorology Center, Suitland, Maryland

9:00 AM Introduction by the Director, Dr. Schuman, "Overview of the Operations of the National Meteorology Center"

9:45 AM Briefing: Research and Operational Aspects of the National Weather Service Environmental Program

10:30 AM Coffee Break

10:45 AM Tour of the National Meteorology Center

12:00 AM Briefing: Application of Weather Satellites for Environmental Studies

1:00 PM Luncheon

3:00 PM Depart for National Airport

3:30 PM Release of EMSU pollution sounding balloon

4:00 PM Depart for Windsor Park Hotel

7:00 PM Depart Windsor Park Hotel for Dinner Hosted by EPA Deputy Administrator Fri

10:00 PM Return to Windsor Park Hotel

Saturday, June 10, Washington, D.C.

Recreation or sightseeing

Sunday, June 11, Washington, D.C. - Boston

12:30 PM Depart Windsor Park Hotel for National Airport

1:30 PM Leave Washington, D.C. via AA #356 to Boston

2:40 PM Arrive Boston and Drive to Parker House Hotel

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Monday, June 12, Boston

8:30 AM	Depart Parker House Hotel
9:00 AM	Briefing on the Operation of SO2 Removal Process of the Mystic Power Station of the Boston Edison Electric Company
10:30 AM	Tour of Mystic Power Station
12:00	Luncheon
1:00 PM	Depart Boston and drive to Rumsford, Rhode Island
2:00 PM	Briefing and tour of acid processing at Essex Chemical Co.
3:30 PM	Depart for Return to Boston
6:00 PM	Dinner
7:10 PM	Depart Boston for Raleigh/Durham N.C. via EA #595
9:48 PM	Arrive Raleigh/Durham and drive to Golden Eagle Motel

Tuesday, June 13, Research Triangle Park, N.C.

8:30 AM	Depart Motel
9:00 AM	Meeting with Deputy Director, National Environmental Research Center
9:30 AM	Briefing: Control Systems Division
11:00 AM	Briefing: Atmospheric Surveillance Division
12:00	Luncheon
1:00 PM	Briefing: Health Effects Division
2:00 PM	Briefing: Ecological Effects Division
3:30 PM	Briefing: National Institute of Environmental Health Studies (Department of Health, Education and Welfare)
4:30 PM	Return to Motel
6:15 PM	Cocktails hosted by Mr. McCormick, Director, Meteorology Division
7:00 PM	Dinner
9:00 PM	Return to Motel

Wednesday, June 14, Research Triangle Park, N.C.

8:30 AM	Depart Motel
9:00 AM	Briefing: Chemistry and Physics Division
10:30 AM	Briefing: Meteorology Division
12:00	Luncheon
1:00 PM	Briefing and Discussion, Meteorology Division
3:00 PM	Tour of National Environmental Research Center
4:30 PM	Depart for Raleigh/Durham Airport
7:25 PM	Flight EA #738 to Pittsburgh
9:16 PM	Arrive Pittsburgh and drive to Hadden Hall Hotel

Thursday, June 15, Pittsburgh, Pennsylvania

7:30 AM Depart Hotel

9:00 AM Bureau of Mines Energy Research Laboratory - briefing  
on research relating to pollution from stationary  
sources and tour of laboratory

12:00 Luncheon

1:30 PM Briefing and Discussions, Bureau of Air Pollution  
Control, Allegheny County Health Department

3:00 PM Meeting with the School of Public Health, University of  
Pittsburgh

5:00 PM Depart for Airport

6:55 PM Leave Pittsburgh via Flight TW #653 for San Francisco

8:46 PM Arrive San Francisco and drive to Motel Travel Lodge at  
the Wharf

Friday, June 16, San Francisco, California

8:30 AM Depart Motel

9:00 AM Meeting with the EPA Regional Administrator,  
Mr. Paul Defalco

9:30 AM Briefing: "Overview of the Air Programs Division."  
to include discussion of Air Implementation Plans,  
and relations with State Agencies

12:00 Luncheon

1:30 PM Briefing: Surveillance and Analysis Division

2:30 PM Briefing: Enforcement Division focus on Investigation  
and Permit Systems

3:30 PM Briefing: Research and Monitoring Division focus on  
grants for health effectss research

5:00 PM Return to Motel



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Saturday June 17 San Francisco, California

Recreation and sightseeing.

Sunday June 18. San Francisco to Los Angeles

8:30AM Depart from airport in SF for Los Angeles TWA

9:55 Arrive in Los Angeles. Day spent in rest and recreation.

8:00 Register in Los Angeles Holiday Inn

Monday June 19. Los Angeles to Detroit

8:00AM Depart from Holiday Inn for visit of Los Angeles County

Air Pollution Board.

3:45 PM Depart from Los Angeles airport on UNited flight 98  
for Detroit. Arrive at 9:45 PM local time and proceed  
to Dearborn Townhouse Motel. Arrive roughly 10:45 PM/

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Tuesday 20 June Detroit ( Dearborn)

8:15 AM	Depart Dearborn Townhouse Hotel for Ford Motor Co. Hq.
8:40 AM	Briefing Sessions, Room 210, WHQ, Opening Remarks, Mr. Simpson
8:45 AM	Reducing Emission thru Engine Modifications, Mr. Brehob
9:15 AM	Carburetor and Distributer Quality Control, Mr. Wilburn
9:45 AM	Engine Quality Control, Mr. Gordon
10:15 AM	Coffee Break
10:20 AM	Vehicle Final Assembly Quality Control, Mr. Newton
10:50 AM	Catalytic Treatment of Exhaust Gas, Mr. Chandler
11:20 AM	Informal Discussion - Questions and Answers
12:00 AM	Luncheon
1:45 PM	Arrive for Tour of Fuel Systems Engrg Laboratory
2:35 PM	Arrive for Tour of Dynamometer Laboratory
3:20 PM	Arrive for Tour of Automotive Emissions Laboratory
4:10 PM	Depart for tour of River Rouge Plant
5:00 PM	Tour of Plant
7:30 PM	Return to Motel ( delay due to flash flood in Dearborn)

Wednesday June 21 Dearborn.

AM Visit to Ford Museum.

1:00 PM

Meeting with Executive Director David Alexander,  
EPA Motor Vehicle Emissions Laboratory and Mr. Bregan  
Briefing: Advance Automotive Power Systems Division

1:45 PM

Briefing: Division of Certification and Surveillance

2:30 PM

Briefing: Division of Emissions Control Technology

3:15 PM

Tour of Laboratory and of exhibits

6:00 PM

~~Revised text~~ Dr. Izrael, Dr Zaitzev and  
Mr Stanton Coerr, leave Dearborn for Washington D.C  
Dr Fomin, Mr Anikiev and Mr. Grinioff, spend  
the night in The Hilton Inn in Dearborn next  
to airport.

June 22 Thursday  
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Visit of Dr. Izrael and Dr Zaitsev with EPA  
 Administrator Mr. Ruckelshaus.

In the evening Supper with Dr. White of NOA.

For Fomin, Anikiev Grinioff

9:20 AM Depart for South Bend, NC 806.  
 11:00 AM Begin consultation and tour of Wheelabrator  
 Plant. Mr George Chane, principal host.  
 1:00 Lunch  
 2:00 PM Resume Tour of plant and briefings  
 5:00 PM Conclude visit and depart for airport  
 5:45 PM Depart for Washington D.C. AL 775  
 9:15 PM Arrive Washington D.C. (local time) at  
 Windor Hotel.

Friday 23 June

9:30 AM Concluding Meeting at EPA Headquarters  
 12:00 AM Lunch  
 2:30 PM Termination of meeting at EPA

Planned festivities cut short because of hurricane Agnes

Saturday 24 June

8:30 AM Depart from Washington Airport for LA Guardia  
 11:15 AM Arrive at Hilton Hotel New York City.  
 Rest of day free for shopping.

Sunday 25 June

Sightseeing until 6 PM

6:00 PM Depart for Kennedy Airport for departing for Moscow  
 by Aeroflot. Flight delayed.

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 11:00 PM flight ready to start.

End of Tour